

WHAT IS CLAIMED IS:

1. A power source device supplying power to an electric motor and an accessory circuit, comprising:

a fuel cell power plant having an output terminal to which the electric motor and the accessory circuit are connected in parallel;

a power storage device connected to the output terminal, the power storage device performing a charging operation and a discharging operation; and

a DC/DC converter which regulates an input voltage of the power storage device in a charging operation and an output voltage of the power storage device in a discharging operation, the DC/DC converter being disposed between the power storage device and the terminal.

2. The power source device as defined in Claim 1, wherein the power source device further comprises a controller programmed to control the DC/DC converter to cause the output voltage of the power storage device in a discharging operation to be equal to an output voltage of the fuel cell power plant.

3. The power source device as defined in Claim 2, wherein the controller is further programmed to control the DC/DC converter to cause the input voltage of the power storage device in a discharging operation to be equal to a predetermined charging voltage.

4. The power source device as defined in Claim 2, wherein the power source device further comprises a sensor which detects an acceleration requirement to the

electric motor, and the controller is further programmed to control the DC/DC converter to maintain the output voltage of the power storage device in a discharging operation at a value equal to the output voltage of the fuel cell power plant before the acceleration requirement is detected.

5. The power source device as defined in Claim 4, wherein the electric motor comprises a motor for driving a vehicle, and the sensor comprises a sensor which detects a depression amount of an accelerator pedal with which the vehicle is provided.

6. The power source device as defined in Claim 1, wherein the power storage device comprises a secondary battery.

7. The power source device as defined in Claim 1, wherein the power storage device comprises a capacitor.

8. The power source device as defined in Claim 1, wherein the accessory circuit comprises a first circuit and a second circuit of which the first circuit consumes greater power than the second circuit, and wherein a length of wire connecting the first circuit and the terminal is set shorter than a length of wire connecting the second circuit and the terminal.

9. The power source device as defined in Claim 1, wherein the electric motor comprises an alternating current synchronous motor connected to the output terminal through an inverter.